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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 KEISER, H. W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. BWR Project Directorate 3

SUBJECT: Forwards revised augmented insp program for IGSCC
 susceptible welds. Program revised in accordance w/
 recommendations in NUREG-1061. Program will be implemented
 in Feb 1986 & completed by June 1993.

DISTRIBUTION CODE: A047D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: OR Submittal: Inservice Inspection/Testing

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387
 OL: 07/17/82

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	NRR BWR EB		1	1	NRR PWR-A ADTS		1 1
	NRR PWR-A EB		1	1	NRR PWR-B ADTS		1 1
	NRR PWR-B EB		1	1	NRR/TAMB		1 1
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1. The purpose of this document is to provide a comprehensive overview of the current status of the project and to identify the key areas that require attention. The information presented here is based on the most recent data available and is intended to serve as a guide for decision-making.

2. The project has made significant progress since the last report, with several key milestones being achieved. However, there are still a number of challenges that need to be addressed in order to ensure the successful completion of the project.

3. The following table provides a detailed breakdown of the project's performance over the past quarter. It includes information on the number of tasks completed, the amount of resources used, and the overall quality of the work.

Task ID	Task Name	Status	Start Date	End Date	Resources	Quality Score
001	Task A	Completed	2023-01-01	2023-01-15	5	95
002	Task B	In Progress	2023-01-16	2023-01-31	3	80
003	Task C	Not Started	2023-02-01	2023-02-15	2	70
004	Task D	Completed	2023-01-01	2023-01-10	4	90
005	Task E	In Progress	2023-01-11	2023-01-25	3	85
006	Task F	Not Started	2023-01-26	2023-02-10	2	75
007	Task G	Completed	2023-01-01	2023-01-05	1	98
008	Task H	In Progress	2023-01-06	2023-01-20	2	82
009	Task I	Not Started	2023-01-21	2023-02-05	1	72
010	Task J	Completed	2023-01-01	2023-01-03	1	99
011	Task K	In Progress	2023-01-04	2023-01-18	2	88
012	Task L	Not Started	2023-01-19	2023-02-03	1	78
013	Task M	Completed	2023-01-01	2023-01-02	1	97
014	Task N	In Progress	2023-01-03	2023-01-17	2	84
015	Task O	Not Started	2023-01-18	2023-02-02	1	76
016	Task P	Completed	2023-01-01	2023-01-01	1	96
017	Task Q	In Progress	2023-01-02	2023-01-16	2	86
018	Task R	Not Started	2023-01-17	2023-02-01	1	74
019	Task S	Completed	2023-01-01	2023-01-04	1	94
020	Task T	In Progress	2023-01-05	2023-01-19	2	83
021	Task U	Not Started	2023-01-20	2023-02-04	1	73
022	Task V	Completed	2023-01-01	2023-01-01	1	92
023	Task W	In Progress	2023-01-02	2023-01-16	2	81
024	Task X	Not Started	2023-01-17	2023-02-01	1	71
025	Task Y	Completed	2023-01-01	2023-01-01	1	91
026	Task Z	In Progress	2023-01-02	2023-01-16	2	87
027	Task AA	Not Started	2023-01-17	2023-02-01	1	77
028	Task AB	Completed	2023-01-01	2023-01-01	1	93
029	Task AC	In Progress	2023-01-02	2023-01-16	2	89
030	Task AD	Not Started	2023-01-17	2023-02-01	1	79

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Pennsylvania Power & Light Company

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Harold W. Keiser
Vice President-Nuclear Operations
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DEC 17 1985

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Project Director
BWR Project Directorate No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #1 AUGMENTED INSPECTION OF SS PIPEWELDS
ER 100450 FILE 899
PLA - 2557

Docket No. 50-387

Dear Ms. Adensam:

The purpose of this letter is to transmit to you Pennsylvania Power & Light Company's revised augmented inspection program for IGSSC susceptible welds. The program was revised in accordance with the recommendations found in NUREG-1061 because:

1. NUREG-1061 allowed credit for performance of IHSI as a counter measure against IGSSC, and
2. NUREG-0313, Rev. 2 is not yet available.

This program will be implemented starting with Unit 1's second refueling and inspection outage (2/86) and will be completed by the end of the first Section XI ten year interval (6/93).

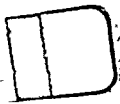
If you have any questions, please contact us.

Very truly yours,

H. W. Keiser
Vice President - Nuclear Operations

cc: M. J. Campagnone USNRC
R. H. Jacobs USNRC

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial system and for providing a clear audit trail.

2. The second part of the document outlines the various methods used to collect and analyze data. These methods include direct observation, interviews, and the use of specialized software tools.

3. The third part of the document describes the results of the data collection and analysis. It shows that there are significant areas where the current system is not meeting the needs of the organization.

The data collected from the various sources indicates that there is a need for a more integrated and user-friendly system. The current system is fragmented and difficult to use, which leads to errors and inefficiencies.

The analysis of the data also shows that there are several key areas where improvements are needed. These include the way in which data is collected, the way in which it is analyzed, and the way in which it is reported.

The results of the analysis suggest that a new system should be developed that addresses these issues. This system should be able to collect data in a more efficient and accurate way, and it should be able to analyze and report on the data in a way that is easy to understand.

The proposed system will be able to collect data from a wide range of sources, including sales, production, and customer service. It will be able to analyze this data in real-time, and it will be able to generate reports that are easy to understand and use.

The system will also be able to integrate with other systems that are currently in use, such as the accounting system and the human resources system. This will allow for a more complete and accurate view of the organization's operations.

The implementation of the proposed system will require a significant investment of resources. However, the benefits of the system are expected to far outweigh the costs. The system will improve the efficiency of the organization's operations, and it will help to reduce the risk of errors and fraud.

In conclusion, the current system is not meeting the needs of the organization. A new system should be developed that addresses these needs. The proposed system is a good example of what this new system should be like.

The implementation of the proposed system will require a significant investment of resources. However, the benefits of the system are expected to far outweigh the costs.

The system will be able to collect data from a wide range of sources, including sales, production, and customer service. It will be able to analyze this data in real-time, and it will be able to generate reports that are easy to understand and use.

The system will also be able to integrate with other systems that are currently in use, such as the accounting system and the human resources system.

Inspection Program For Detection of IGSCC

Guidance in preparation of this inspection program was taken from NUREG 1061 (Ref. 1). It is intended that this program replace, in its entirety, the inspection program requirements of NUREG 0313, Revision 1, in so far as scope and schedule.

BACKGROUND:

Unit #1 of the Susquehanna Steam Electric Station was declared to be in commercial operation on June 8, 1983. During the Unit#1 First Refueling Outage (2/85-6/85) a group of stainless steel welds evaluated by PP&L as susceptible to IGSCC received IHSI treatment and subsequent NDE in accordance with commitments to both NUREG 0313 and Generic Letter 84-11. All examination results were acceptable.

REFERENCES:

- 1) NUREG 1061, Volume 1, "Investigation and Evaluation of Stress Corrosion Cracking in Piping and Boiling Water Reactor Plants"
- 2) PP&L Document #ISI-T-106.0, "Inservice Inspection Program Plan, First Ten Year Interval", Revision 1.

DEFINITIONS:

Resistant Materials include any of the following:

- 1) 304L, 316L, 316K, 304NG, 316NG, 347NG, 308L
- 2) Low Strength Carbon Steels
- 3) Approved Nickel-Based Materials
- 4) Cast Low-Carbon/High Ferrite Austenitic stainless Steels
- 5) Welds solution heat-treated after fabrication and welding
- 6) Corrosion resistant cladding

Countermeasure A is defined as any combination of two mitigating processes which are intended to reduce or minimize any two of the three causes (i.e., sensitization, stress, and environment) contributing to IGSCC.

Countermeasure B is defined as any one mitigating process of those accepted processes.



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Mitigating Processes include the following: IHSI, HSW, Hydrogen Water Chemistry.

Routine Section XI Program for Class 1 Welds is as defined in Relief Request No. IRR-10 of Reference 2.

PROGRAM DETAILS:

<u>Weld Category</u>	<u>Condition</u>	<u>Inspection Required</u>
A	Resistant Material or Countermeasure A applied	Routine ASME Section XI Program for Class 1 welds.
B	Nonresistant Material with Countermeasure B applied	50% of the welds of each pipe size in 10 years. At least one-third of these should be inspected every three and one-third years or the nearest refueling outage.
C	Nonresistant Material with No Countermeasure Applied	100% in 6 years. At least one-half of these should be inspected every three and one-third years or the nearest refueling outage.

WELD CATEGORY A

All welds in Category A are made of resistant materials. Countermeasure A has not been applied to SSES #1.

WELD CATEGORY B

One hundred and eleven (111) SSES #1 welds fall into weld Category B.

All these welds have received IHSI and have no reported indications. The table below lists the number of welds in each pipe size, the affected systems, and the number to be selected for inspection.

<u>Diameter</u>	<u>No. of Welds</u>	<u>Affected Systems</u>	<u>50%</u>
4"	22	RWCU, RR	11
12"	14	CS, RR	7
20"	14	RHR	7
22"	2	RR	1
24"	27	RHR	14
28"	<u>32</u>	RR	<u>16</u>
	111		56



WELD CATEGORY C

Eight (8) SSES #1 welds (Class 2 and Class 3 only) fall into weld Category C. These welds are of a non-resistant material and have had no countermeasures applied.

A total of sixty-four (64) welds will be examined in accordance with the above Category B/C inspection program. The remaining stainless steel welds will be examined in accordance with the routine ASME Section XI program. The required augmented inspections will be spread out over the interval with at least one-third of the welds inspected per period (three and one-third years). The program will commence during the next (second) U#1 refueling outage and shall be completed by the end of the first Section XI ten (10) year interval (i.e., June 8, 1993 plus/minus any grace periods as allowed in Section XI.)

ms/1049c:mg

